Date.	•	R. A	١.	N	. P.	D.	Date.			R	A	. 1	1. P.	D.
1847. Sept. 3	h 22	m 4	2.95	102	30 <sup>°</sup>	51.5	1847. Sept. 8	3	h 22	т 3	32°75	102	33	37"4
4		3	56.84		31	25.1	9	)			26.82		34	9.9
5			50.77		3 I	58.2	10	,			20.93		34	42.5
6			44.73		32	31.7	11	١			15.09		35	14.1
7	22	3	38.45	102	33	4.7	12		22	3	9.52	102	35	45.8

Mr. Adams finds the following log distances of the Earth from Neptune.

 July
 19
 1.464782
 August 28
 1.462553

 August 8
 1.462822
 Sept. 17
 1.464028

the horizontal parallax may be taken to be o".3

On comparing Professor Challis's places with those given by the ephemeris, Mr. Adams finds the following corrections:—

		R.A. Obsd.—Calcd.	N.P.D. Obsd.—Calcd.
1847.	May 26	+0.18 s	+ 1.5
	June 1	+0°21	+ 1.0
	19	+0.02	+ 1.3
	July 13	-0.23	+ 1.1

HAMBURG.				(M. Rümker.)
	Date.	Hamburg M.T.	R.A.	Dec. No. of Obs.
1847.	June 14	13 15 0	332 37 41.2	$-11^{\circ} 53^{\circ} 27^{\circ}9 5$
	17	13 33 3	36 46.8	54 O I
	18	13 5 18.5	36 10.8	54 22.5 5
	20	12 51 10.0	35 6.2	54 52.8 3
	23	57 10.0	33 23.4	55 31·1 9
	24	39 16.8	32 46.7	55 45°5 3
	28	46 8.0	29 59.1	56 54·6 8
	July 3	39 9.0	25 54.4	58 32.8 5
	5	12 36 34.8	332 24 9'2	-II 59 20°2 7

Observations of ASTRÆA.

HAMBURG.		J	(M. Rümker.)
	Hamburg M.T.	R.A.	Dec.
1847. May 21	11 39 23.4	233 48 15.1	-10° 21′ 11'0 Mer. Cir.
24	11 24 53.1	233 7 28.9	10 14 31'4 Mer. Cir.
	12 12 9.9	233 7 12.0	10 14 12.0 7
June 3	12 3 47.3	231 2 56.0	9 58 45.2 17
7	11 28 28.9	230 20 28.5	9 56 1.3 10
9	10 10 5.2	230 1 16.6::	9 55 33.8 Mer. Cir.
	11 20 32.1	230 0 54.5	-9 55 27·4 8
. 11	11 32 23.8	229 42 25.5	<b>-9</b> 55 13.6 7

	Hamburg M.T.	R.A.	Dec.	
1847. June 12	h m .	229 33 56.8	9° 55′ 17"4	7
14	11 48 54.6	229 18 2.0	9 56 20.4	. 2
18	11 35 35.0	228 49 25.7	9 59 19.7	16
19	10 56 47.3	228 43 22.6	10 0 7.7	1::
20	11 18 47.4	228 37 34.4	-10 I 29.5	20

Apparent places of the stars which have served for comparison with Astraa, determined with the meridian circle:—

	R.A.	Dec.
June 2	15 26 40.650	−10° 0′37"
8	24 1.629	9 54 48.9
10	15 57.612	9 46 9.7
15	14 55.933	9 55 52.6
14	22 11.404	9 47 43'2
14	22 34.518	9 46 58.5
20	15 14 21.452	—10 6 5·6

Elements of the Binary Star y Virginis. By Mr. Hind.

The following orbit was computed by the method of Encke, given in Berliner Jahrbuch for 1832. It does not, however, represent the state of singleness observed at the end of 1836 by Sir J. Herschel and Captain Smyth; nor indeed does any other orbit hitherto published: but, in other respects, the series of observations from Bradley to the present time is satisfied with tolerable accuracy. The measures employed in the direct calculation of the elements are Sir W. Herschel's, in 1781; Struve's, in 1832 and 1836; and Mr. Dawes', in 1842. The distance, however, for 1836, is taken to be o":41 instead of o":257, the distance stated by Struve, in order to get an ellipse which would exactly represent the other data.

Perihelion Passage	1836.556
Longitude Perihelion	318° 16′•6
Node	28 58 °O
Inclination of Orbit	28 42 1
Log. Semi-axis Major	° 57347
Log. Mean Annual Motion	2.11166
Eccentricity	0.87715=sin 61° 18′ 3″
Period of Revolution	167.031 years.

## Ephemeris of v Virginis. By Mr. Hind.

		۰		"
1846,0	Position	181.85	Distance	2.523
1847,0		179.97		2.671
1848,0		178-27		5.813
1849,0		176.73		2.948
1850,0		175.33		3.077
1851,0		174.03		3.501
1852.0		172.84		3.321